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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/896,301

DATE: 12/21/2001

TIME: 14:29:46

Input Set : N:\Crf3\RULE60\09896301.txt
Output Set: N:\CRF3\12212001\I896301.raw

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/896,301

DATE: 12/21/2001
TIME: 14:29:46

Input Set : N:\Crf3\RULE60\09896301.txt
Output Set: N:\CRF3\12212001\I896301.raw

127 <222> LOCATION: 211
 129 <223> OTHER INFORMATION: Xaa is unknown or other.
 133 <400> SEQUENCE: 2
 135 Ala Gly Gly Gly Trp Val Asn Ala His Ala Thr Phe Tyr Gly Gly Gly
 137 1 5 10 15
 141 Asp Ala Ser Gly Thr Met Gly Gly Ala Cys Gly Tyr Gly Asn Leu Tyr
 143 20 25 30
 147 Ser Gln Gly Tyr Gly Thr Asn Thr Ala Ala Leu Ser Thr Ala Leu Phe
 149 35 40 45
 153 Asn Asn Gly Leu Ser Cys Gly Ala Cys Phe Glu Ile Arg Cys Gln Asn
 155 50 55 60
 159 Asp Gly Lys Trp Cys Leu Pro Gly Ser Ile Val Val Thr Ala Thr Asn
 161 65 70 75 80
 165 Phe Cys Pro Pro Asn Asn Ala Leu Pro Asn Asn Ala Gly Gly Trp Cys
 167 85 90 95
 171 Asn Pro Pro Gln Gln His Phe Asp Leu Ser Gln Pro Val Phe Gln Arg
 173 100 105 110
 177 Ile Ala Gln Tyr Arg Ala Gly Ile Val Pro Val Ala Tyr Arg Arg Val
 179 115 120 125
 183 Pro Cys Val Arg Arg Gly Gly Ile Arg Phe Thr Ile Asn Gly His Ser
 185 130 135 140
 189 Tyr Phe Asn Leu Val Leu Ile Thr Asn Val Gly Gly Ala Gly Asp Val
 191 145 150 155 160
 195 His Ser Ala Met Val Lys Gly Ser Arg Thr Gly Trp Gln Ala Met Ser
 197 165 170 175
 201 Arg Asn Trp Gly Gln Asn Trp Gln Ser Asn Ser Tyr Leu Asn Gly Gln
 203 180 185 190
 207 Ser Leu Ser Phe Lys Val Thr Thr Ser Asp Gly Gln Thr Ile Val Ser
 209 195 200 205
 W--> 213 Asn Asn Xaa Ala Asn Ala Gly Trp Ser Phe Gly Gln Thr Phe Thr Gly
 215 210 215 220
 219 Ala His Val Arg
 221 225
 227 <210> SEQ ID NO: 3
 229 <211> LENGTH: 222
 231 <212> TYPE: PRT
 233 <213> ORGANISM: Artificial Sequence
 237 <220> FEATURE:
 239 <223> OTHER INFORMATION: Description of Artificial Sequence: rice expansin
 243 <220> FEATURE:
 245 <221> NAME/KEY: UNSURE
 247 <222> LOCATION: (14)..(58)
 249 <223> OTHER INFORMATION: Xaa is unknown or other.
 253 <400> SEQUENCE: 3
 W--> 255 His Met Gly Pro Trp Ile Asn Ala His Ala Thr Phe Tyr Xaa Xaa Gly
 257 1 5 10 15
 W--> 261 Asp Ala Xaa Xaa Thr Met Gly Gly Ala Cys Gly Tyr Gly Asn Leu Tyr
 263 20 25 30
 267 Ser Gln Gly Tyr Gly Leu Glu Thr Ala Ala Leu Ser Thr Ala Leu Phe

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269	35	40	45
W--> 273	Asp Gln Gly Leu Ser Cys Gly Ala Cys Xaa Glu Leu Met Cys Val Asn		
275	50	55	60
279	Asp Pro Gln Trp Cys Ile Lys Gly Arg Ser Ile Val Val Thr Ala Thr		
281	65	70	75
285	Asn Phe Cys Pro Pro Gly Gly Ala Cys Asp Pro Pro Asn His His Phe		80
287	85	90	95
291	Asp Leu Ser Gln Pro Ile Tyr Glu Lys Ile Ala Leu Tyr Lys Ser Gly		
293	100	105	110
297	Ile Ile Pro Val Met Tyr Arg Arg Val Arg Cys Lys Arg Ser Gly Gly		
299	115	120	125
303	Ile Arg Phe Thr Ile Asn Gly His Ser Tyr Phe Asn Leu Val Leu Val		
305	130	135	140
309	Thr Asn Val Gly Gly Ala Gly Asp Val His Ser Val Ser Met Lys Gly		
311	145	150	155
315	Ser Arg Thr Lys Trp Gln Leu Met Ser Arg Asn Trp Gly Gln Asn Trp		160
317	165	170	175
321	Gln Ser Asn Ser Tyr Leu Asn Gly Gln Ser Leu Ser Phe Val Val Thr		
323	180	185	190
327	Thr Ser Asp Arg Arg Ser Val Val Ser Phe Asn Val Ala Pro Pro Thr		
329	195	200	205
333	Trp Ser Phe Gly Gln Thr Tyr Thr Gly Gly Gln Phe Arg Tyr		
335	210	215	220
341	<210> SEQ ID NO: 4		
343	<211> LENGTH: 227		
345	<212> TYPE: PRT		
347	<213> ORGANISM: Artificial Sequence		
351	<220> FEATURE:		
353	<223> OTHER INFORMATION: Description of Artificial Sequence: Arabidopsis		
355	expansin		
359	<220> FEATURE:		
361	<221> NAME/KEY: UNSURE		
363	<222> LOCATION: (2)..(227)		
365	<223> OTHER INFORMATION: Xaa is unknown or other.		
369	<400> SEQUENCE: 4		
W--> 371	Lys Xaa Ser Val Ala Gln Ser Ala Phe Ala Thr Phe Tyr Gly Gly Lys		
373	1	5	10
			15
377	Asp Gly Ser Cys Thr Met Gly Gly Ala Cys Gly Tyr Gly Asn Leu Tyr		
379	20	25	30
383	Asn Ala Gly Tyr Gly Leu Tyr Asn Ala Ala Leu Ser Ser Ala Leu Phe		
385	35	40	45
389	Asn Asp Gly Ala Met Cys Gly Ala Cys Tyr Thr Ile Thr Cys Asp Thr		
391	50	55	60
395	Ser Gln Thr Lys Trp Cys Lys Pro Gly Gly Asn Ser Ile Thr Ile Thr		
397	65	70	75
			80
W--> 401	Ala Thr Asn Leu Cys Xaa Pro Asn Trp Ala Leu Pro Ser Asn Ser Gly		
403	85	90	95
W--> 407	Gly Trp Cys Asn Pro Pro Leu Xaa His Phe Asp Met Ser Gln Pro Ala		
409	100	105	110

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Input Set : N:\Crf3\RULE60\09896301.txt
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413 Trp Glu Asn Ile Ala Val Tyr Gln Ala Gly Ile Val Pro Val Asn Tyr
415 115 120 125
W--> 419 Lys Arg Val Pro Xaa Gln Arg Ser Gly Gly Ile Arg Phe Ala Ile Ser
421 130 135 140
425 Gly His Asp Tyr Phe Glu Leu Val Thr Val Thr Asn Val Gly Gly Ser
427 145 150 155 160
431 Gly Val Val Ala Gln Met Ser Ile Lys Gly Ser Asn Thr Gly Trp Met
433 165 170 175
437 Ala Met Ser Arg Asn Trp Gly Ala Asn Trp Gln Ser Asn Ala Tyr Leu
439 180 185 190
443 Ala Gly Gln Ser Leu Ser Phe Ile Val Gln Leu Asp Asp Gly Arg Lys
445 195 200 205
W--> 449 Val Thr Ala Trp Asn Xaa Ala Pro Xaa Asn Trp Leu Xaa Xaa Xaa Xaa
451 210 215 220
W--> 455 Xaa Xaa Xaa
457 225
463 <210> SEQ ID NO: 5
465 <211> LENGTH: 225
467 <212> TYPE: PRT
469 <213> ORGANISM: Artificial Sequence
473 <220> FEATURE:
475 <223> OTHER INFORMATION: Description of Artificial Sequence: Arabidopsis
477 expansin
481 <400> SEQUENCE: 5
483 Asp Asn Gly Gly Trp Glu Arg Gly His Ala Thr Phe Tyr Gly Gly Ala
485 1 5 10 15
489 Asp Ala Ser Gly Thr Met Gly Gly Ala Cys Gly Tyr Gly Asn Leu His
491 20 25 30
495 Ser Gln Gly Tyr Gly Leu Gln Thr Ala Ala Leu Ser Thr Ala Leu Phe
497 35 40 45
501 Asn Ser Gly Gln Lys Cys Gly Ala Cys Phe Glu Leu Thr Cys Glu Asp
503 50 55 60
507 Asp Pro Glu Trp Cys Ile Pro Gly Ser Ile Ile Val Arg Tyr Asn Leu
509 65 70 75 80
513 Ala Asn Phe Ala Leu Ala Asn Asp Asn Gly Gly Trp Cys Asn Pro Pro
515 85 90 95
519 Leu Lys His Phe Asp Leu Ala Glu Pro Ala Phe Leu Gln Ile Ala Gln
521 100 105 110
525 Tyr Arg Ala Gly Ile Val Pro Val Ala Phe Arg Arg Val Pro Cys Glu
527 115 120 125
531 Lys Gly Gly Gly Ile Arg Phe Thr Ile Asn Gly Asn Pro Tyr Phe Asp
533 130 135 140
537 Leu Val Leu Ile Thr Asn Val Gly Gly Ala Gly Asp Ile Arg Ala Val
539 145 150 155 160
543 Ser Leu Lys Gly Ser Lys Thr Asp Gln Trp Gln Ser Met Ser Arg Asn
545 165 170 175
549 Trp Gly Gln Asn Trp Gln Ser Asn Thr Tyr Leu Arg Gly Gln Ser Leu
551 180 185 190
555 Ser Phe Gln Val Thr Asp Ser Asp Gly Arg Thr Val Val Ser Tyr Asp

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Input Set : N:\Crf3\RULE60\09896301.txt
Output Set: N:\CRF3\12212001\I896301.raw

557 195 200 205
 561 Val Val Pro His Asp Trp Gln Phe Gly Gln Thr Phe Glu Gly Gly Gln
 563 210 215 220
 567 Phe
 569 225
 575 <210> SEQ ID NO: 6
 577 <211> LENGTH: 226
 579 <212> TYPE: PRT
 581 <213> ORGANISM: Artificial Sequence
 585 <220> FEATURE:
 587 <223> OTHER INFORMATION: Description of Artificial Sequence: Arabidopsis
 589 expansin
 593 <400> SEQUENCE: 6
 595 Asp Tyr Ser Ser Trp Gln Ser Ala His Ala Thr Phe Tyr Gly Gly Gly
 597 1 5 10 15
 601 Asp Ala Ser Gly Thr Met Gly Gly Thr Cys Gly Tyr Gly Asn Leu Tyr
 603 20 25 30
 607 Ser Thr Gly Tyr Thr Asn Thr Ala Ala Leu Ser Thr Val Leu Phe Asn
 609 35 40 45
 613 Asp Gly Ala Ala Cys Arg Ser Cys Tyr Glu Leu Arg Cys Asp Asn Asp
 615 50 55 60
 619 Gly Gln Trp Cys Leu Pro Gly Ser Val Thr Val Thr Ala Thr Asn Leu
 621 65 70 75 80
 625 Cys Pro Pro Asn Tyr Ala Leu Pro Asn Asp Asp Gly Gly Trp Cys Asn
 627 85 90 95
 631 Pro Pro Arg Pro His Phe Asp Met Ala Glu Pro Ala Phe Leu Gln Ile
 633 100 105 110
 637 Gly Val Tyr Arg Ala Gly Ile Val Pro Val Ser Tyr Arg Arg Val Pro
 639 115 120 125
 643 Cys Val Lys Lys Gly Gly Ile Arg Phe Thr Ile Asn Gly His Ser Tyr
 645 130 135 140
 649 Phe Asn Leu Val Leu Val Thr Asn Val Ala Gly Pro Gly Asp Val Gln
 651 145 150 155 160
 655 Ser Val Ser Ile Lys Gly Ser Ser Thr Gly Trp Gln Pro Met Ser Arg
 657 165 170 175
 661 Asn Trp Gly Gln Asn Trp Gln Ser Asn Ser Tyr Leu Asp Gly Gln Ser
 663 180 185 190
 667 Leu Ser Phe Gln Val Ala Val Ser Asp Gly Arg Thr Val Thr Ser Asn
 669 195 200 205
 673 Asn Val Val Pro Ala Gly Trp Gln Phe Gly Gln Thr Phe Glu Gly Gly
 675 210 215 220
 679 Gln Phe
 681 225
 687 <210> SEQ ID NO: 7
 689 <211> LENGTH: 227
 691 <212> TYPE: PRT
 693 <213> ORGANISM: Artificial Sequence
 697 <220> FEATURE:
 699 <223> OTHER INFORMATION: Description of Artificial Sequence: cucumber

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/896,301

DATE: 12/21/2001
TIME: 14:29:47

Input Set : N:\Crf3\RULE60\09896301.txt
Output Set: N:\CRF3\12212001\I896301.raw

L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:449 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4